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Eric L. Maldonado

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Attorney Docket No. FUSA 20.686 (100807-00092)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Makoto YOSHIDA
Serial No.: 10/687,203
Filed: October 16, 2003
Title: RECEIVING APPARATUS IN...
Examiner:
Art Unit:
Con. No.:

March 15, 2004

Director of the U.S. Patent and
Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

S I R:

In order to comply with discretionary rules 37 CFR §§1.97 and 1.98, attached hereto is a copy of Form PTO-1449 and a copy of the documents listed thereon. This document contains information in which the Examiner may consider to be important in deciding whether to issue a patent in the instant application.

As this statement is being filed prior to issuance of a first Office Action, no fee is due.

Also attached is a copy of an European Search Report dated February 26, 2004 from the corresponding European Patent Application. All of the documents listed in Form PTO-1449 appear in the European Search Report.

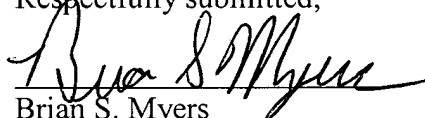
Each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

The present Information Disclosure Statement is being submitted in compliance with 37 §CFR 1.56 as an Examiner might consider any cited document important in deciding whether to allow the application to issue as a patent, but the citation of each document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner in the normal course of examination, will make an independent search and will determine the best prior art consistent with 37 CFR 1.104 (a), and in the course of such search will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is respectfully solicited.

Any fee due with this paper may be charged on Deposit Account 50-1290.

Respectfully submitted,



Brian S. Myers
Reg. No. 46,947

CUSTOMER NO.: 026304
KATTEN MUCHIN ZAVIS ROSENMAN
575 Madison Avenue, 15th Floor
New York, NY 10022-2585
(Tel) 212-940-8800
Docket No.: FUSA 20.686 (100807-00092)



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Patent and Trademark Office

Application No. : 10/687,203

Filing Date : October 16, 2003

First Named Inventor: M. YOSHIDA

Group Art Unit :

Examiner Name :

Attorney Docket No. : FUSA 20.686

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 1 of 1

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document	Kind Code if known ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear

FOREIGN DOCUMENTS

Examiner Initials	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)	Country	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YY/Y	Pages, Columns Lines Where Relevant Passages or Relevant Figures Appear
		00/36801	WO	TELEFONAKTIEBOLAGET LM ERICSSON	06/22/2000	
		01/58105	WO	AT&T CORP	08/09/2001	
		1 065 855	EP	SONY INTERNATIONAL (EUROPE) GMBH	01/03/2001	
		0 802 649	EP	ALCATEL BELL	10/22/1997	

Other Prior Art-Non Patent Literature Documents

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), data, page(s), volume-issue number(s), publisher, country, where published, source.	Applicant check here if English language translation attached
		DUKHUN, et al., "RESIDUAL ISI CANCELLATION FOR OFDM WITH APPLICATIONS TO HDTV BROADCASTING" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS VOL. 16, NO. 8, OCTOBER 1998, pp. 1590-1599, XP002159671, ISSN:0733-8716	
		YAMAMURA, et al., "HIGH MOBILITY OFDM TRANSMISSION SYSTEM BY A NEW CHANNEL ESTIMATION AND ISI CANCELLATION SCHEME USING CHARACTERISTICS OF PILOT SYMBOL INSERTED OFDM SIGNAL" VEHICULAR TECHNOLOGY CONFERENCE, SEPTEMBER 1999 XP010352958, ISBN:0-7803-5435-4, pp. 319-323	
		HAZY, et al., "SYNCHRONIZATION OF OFDM SYSTEMS OVER FREQUENCY SELECTIVE FADING CHANNELS" MAY 1997 VEHICULAR TECHNOLOGY CONFERENCE, XP010229167, ISBN: 0-7803-3659-3 pp. 2094-2098	
		SUYAMA, et al., "AN OFDM RECEIVER WITH SMOOTHED FFT-WINDOW AND RLS-MLSE FOR FAST MULTIPATH FADING ENVIRONMENTS WITH LARGE DELAY SPREAD" SEPTEMBER 2002 PROCEEDINGS IEEE ISSTA 2002- IEEE INTERNATIONAL SYMPOSIUM ON SPREAD SPECTRUM TECHNIQUES AND APPLICATIONS VOL. 2, pp. 353-357, XP010615490	
Examiner Signature		Date Considered	

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.1^a if possible. ^aApplicant is to place a check mark here if English language Translation is attached.

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